

Amendments to the Claims:

Status of Claims:

Claims 1, 5-21, 25-41, 45-60, 81 and 85-98 are pending for examination.

Claims 5, 21-40, 45, and 81-98 are canceled herein.

Claims 1, and 41 are amended herein.

Claims 1, and 41 are in independent form.

Claims Listing

1. (Currently Amended) A computer-implemented method of operating a reference monitor simulator operable to recreate the operations performed by a reference monitor on a computer system, the method comprising:

(A) defining at least one security rule specifying whether to allow or deny a request to access at least one resource;

(B) supplying at least one request to access a resource; and

(C) applying the at least one security rule in response to the at least one request to access a resource to determine whether to allow or prevent the at least one request; and

controlling the reference monitor simulator to operate at an accelerated rate as compared to an actual reference monitor by providing at least one parameter that defines defining a system environment in which the reference monitor simulator executes, where the at least one parameter includes a time parameter, where the time parameter controls one or more of, eliminating a time gap between trace requests, indicating that a time period between portions of a trace request has elapsed, and running a system clock faster than real-time which defines the passage of time perceived by the computer system, the passage of time indicated by the time parameter is faster than the actual passage of time.

2.- 5. (Canceled)

6. (Original) The method of claim 1, further comprising:

(D) assessing the effectiveness of the at least one security rule.

7. (Original) The method of claim 6, wherein assessing the effectiveness of the security rule further comprises determining at least one of the number of improper access requests prevented and the number of proper access requests allowed.

8. (Original) The method of claim 6, wherein assessing the effectiveness of the security rule further comprises determining a rate of improper requests prevented.

9. (Original) The method of claim 1, wherein (8) further comprises an application program supplying the at least one request to access a resource.

10. (Original) The method of claim 1, wherein (8) further comprises capturing at least one request to access a resource before supplying the at least one request to access a resource.

11. (Original) The method of claim 10, wherein a reference monitor performs the capture of the at least one request to access a resource.

12. (Original) The method of claim 11, wherein the reference monitor which performs the capture of the at least one request to access a resource is the same type of reference monitor as the reference monitor whose operations are recreated by the reference monitor simulator.

13. (Original) The method of claim 10, wherein the captured at least one request to access a resource is an improper request.

14. (Original) The method of claim 13, wherein an improper request comprises a request issued by an application in response to one of a virus and a buffer overrun attack.

15. (Original) The method of claim 10, wherein the captured at least one request is modified prior to supplying the at least one request to access a resource.

16. (Original) The method of claim 15, wherein the modification is performed by a user.

17. (Original) The method of claim 6, wherein an electronic file system stores the at least one security rule, and wherein (D) further comprises the reference monitor simulator accessing the security rule in the electronic file system in response to receiving the at least one request to access a resource.

18. (Previously Presented) The method of claim 1, wherein the at least one parameter provided to the reference monitor simulator further includes at least one of a system clock, a wrapper function, and a timer event.

19. (Original) The method of claim 1, further comprising:

(E) maintaining statistics on the operation of the reference monitor simulator.

20. (Original) The method of claim 19, wherein the statistics include at least one of the number of requests per resource, number of total requests, type of request per resource, total of each type of request, number of queries, number of callbacks, number of requests allowed compared to number of requests expected, and number of requests prevented compared to number of prevented requests expected.

21.-40. (Cancelled)

41. (Currently Amended) A system for providing a reference monitor simulator for simulating the operations performed by a reference monitor, the system comprising:

a definer component to define at least one security rule specifying whether to allow or deny a request to access at least one resource under a given set of circumstances;

a supplier component to supply at least one request to access a resource;

and

an applier component to apply the at least one security rule in response to the at least one request to access a resource to determine whether to allow or prevent the at least one request; and

a control component to control the reference monitor simulator to operate at an accelerated rate as compared to an actual reference monitor by providing at least one parameter that defines a system environment in which the reference monitor simulator executes, where the at least one parameter includes a time parameter, where the time parameter controls one or more of, eliminating a time gap between trace requests, indicating that a time period between portions of a trace request has elapsed, and running a system clock faster than real-time

; and

~~— a provider component to provide at least one parameter defining the system environment in which the reference monitor executes. the at least one parameter includes a time parameter which defines the passage of time perceived by the computer system, the passage of time indicated by the time parameter is faster than the actual passage of time.~~

42. – 45. (Canceled)

46. (Original) The system of claim 41, further comprising an assessor component to assess the effectiveness of the at least one security rule.

47. (Original) The system of claim 46, wherein assessing the effectiveness of the security rule further comprises determining at least one of the number of improper access requests prevented and the number of proper access requests allowed.

48. (Original) The system of claim 46, wherein assessing the effectiveness of the security rule further comprises determining a rate of improper requests prevented.

49. (Original) The system of claim 41, further comprising an application program to supply the supplier component with the at least one request to access a resource.

50. (Original) The system of claim 41, further comprising a capture component to capture at least one request to access a resource before supplying the at least one request to access a resource.

51. (Original) The system of claim 50, wherein the capture component includes a second reference monitor.

52. (Original) The system of claim 51, wherein the second reference monitor is a same type of reference monitor as the reference monitor whose operations are recreated by the reference monitor simulator.
53. (Original) The system of claim 50, wherein the capture component captures at least one request to access a resource which is an improper request.
54. (Original) The system of claim 53, wherein an improper request comprises a request issued by an application in response to one of a virus and a buffer overrun attack.
55. (Original) The system of claim 50, further comprising a modification component to modify at least one captured request prior to supplying the at least one request to access a resource.
56. (Original) The system of claim 55, wherein the modification component takes input from a user.
57. (Original) The system of claim 41, further comprising an electronic file system which stores the at least one security rule, and the applier component accesses the security rule in the electronic file system in response to receiving at least one request to access a resource.
58. (Previously Presented) The system of claim 41, wherein the provider component provides at least one parameter to the reference monitor simulator which includes at least one of a system clock, a wrapper function, and a timer event.

59. (Original) The system of claim 41, further comprising:

(E) a statistics component to maintain statistics on the operation of the reference monitor simulator.

60. (Original) The system of claim 59, wherein the statistics component maintains statistics which include at least one of the number of requests per resource, number of total requests, type of request per resource, total of each type of request, number of queries, number of callbacks, number of requests allowed compared to number of requests expected, and number of requests prevented compared to number of prevented requests expected.

61. – 98. (Canceled)